Emilio Hernandez-Garcia

List of Publications by Year
in descending order

172 papers	5,765 citations	76326 40 h-index	95266 68 g-index
190 all docs	190 docs citations	190 times ranked	5660 citing authors

#	Article	IF	Citations
1	Ecological thresholds and regime shifts: approaches to identification. Trends in Ecology and Evolution, 2009, 24, 49-57.	8.7	623
2	Mixing structures in the Mediterranean Sea from finite-size Lyapunov exponents. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	253
3	Top marine predators track Lagrangian coherent structures. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8245-8250.	7.1	231
4	Hydrodynamic provinces and oceanic connectivity from a transport network help designing marine reserves. Geophysical Research Letters, 2014, 41, 2883-2891.	4.0	155
5	Network analysis identifies weak and strong links in a metapopulation system. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18824-18829.	7.1	152
6	Comparison between Eulerian diagnostics and finite-size Lyapunov exponents computed from altimetry in the Algerian basin. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 15-31.	1.4	144
7	Analytical and numerical studies of noise-induced synchronization of chaotic systems. Chaos, 2001, 11, 665-673.	2.5	140
8	Synchronization, quantum correlations and entanglement in oscillator networks. Scientific Reports, 2013, 3, 1439.	3.3	121
9	Clustering, advection, and patterns in a model of population dynamics with neighborhood-dependent rates. Physical Review E, 2004, 70, 016216.	2.1	100
10	Flow networks: A characterization of geophysical fluid transport. Chaos, 2015, 25, 036404.	2.5	100
11	Linking basinâ€scale connectivity, oceanography and population dynamics for the conservation and management of marine ecosystems. Global Ecology and Biogeography, 2016, 25, 503-515.	5.8	97
12	How reliable are finite-size Lyapunov exponents for the assessment of ocean dynamics?. Ocean Modelling, 2011, 36, 208-218.	2.4	96
13	DYNAMICS OF ELASTIC EXCITABLE MEDIA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2197-2202.	1.7	95
14	Comparative study of mixing and biological activity of the Benguela and Canary upwelling systems. Geophysical Research Letters, 2008, 35, .	4.0	82
15	Synchronization of Spatiotemporal Chaos: The Regime of Coupled Spatiotemporal Intermittency. Physical Review Letters, 1997, 78, 4379-4382.	7.8	80
16	Interaction network based early warning indicators for the Atlantic MOC collapse. Geophysical Research Letters, 2013, 40, 2714-2719.	4.0	77
17	Species Clustering in Competitive Lotka-Volterra Models. Physical Review Letters, 2007, 98, 258101.	7.8	72
18	Spectrum of genetic diversity and networks of clonal organisms. Journal of the Royal Society Interface, 2007, 4, 1093-1102.	3.4	72

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19	Burridge-Knopoff Models as Elastic Excitable Media. Physical Review Letters, 1997, 79, 527-530.	7.8	68
20	The noisy Hegselmann-Krause model for opinion dynamics. European Physical Journal B, 2013, 86, 1.	1.5	64
21	Surface mixing and biological activity in the four Eastern Boundary Upwelling Systems. Nonlinear Processes in Geophysics, 2009, 16, 557-568.	1.3	64
22	Forecasting the SST Space-time variability of the Alboran Sea with genetic algorithms. Geophysical Research Letters, 2000, 27, 2709-2712.	4.0	61
23	Boundaries of the Peruvian oxygen minimum zone shaped by coherent mesoscale dynamics. Nature Geoscience, 2015, 8, 937-940.	12.9	61
24	Noisy continuous-opinion dynamics. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P08001.	2.3	60
25	Fairy circle landscapes under the sea. Science Advances, 2017, 3, e1603262.	10.3	60
26	Lagrangian Transport through an Ocean Front in the Northwestern Mediterranean Sea. Journal of Physical Oceanography, 2008, 38, 1222-1237.	1.7	56
27	Oceanic three-dimensional Lagrangian coherent structures: A study of a mesoscale eddy in the Benguela upwelling region. Ocean Modelling, 2012, 51, 73-83.	2.4	56
28	Intensity correlation functions for the colored gain-noise model of dye lasers. Physical Review A, 1990, 42, 6823-6830.	2.5	55
29	Using network theory and machine learning to predict El Niño. Earth System Dynamics, 2018, 9, 969-983.	7.1	55
30	Plankton blooms in vortices: the role of biological and hydrodynamic timescales. Nonlinear Processes in Geophysics, 2007, 14, 443-454.	1.3	53
31	Synchronization and entrainment of coupled circadian oscillators. Interface Focus, 2011, 1, 167-176.	3.0	48
32	Wound-up phase turbulence in the complex Ginzburg-Landau equation. Physical Review E, 1997, 56, 151-167.	2.1	47
33	Self-pulsating semiconductor lasers: theory and experiment. IEEE Journal of Quantum Electronics, 1999, 35, 764-770.	1.9	47
34	Most probable paths in temporal weighted networks: An application to ocean transport. Physical Review E, 2015, 92, 012818.	2.1	47
35	Wikipedia Information Flow Analysis Reveals the Scale-Free Architecture of the Semantic Space. PLoS ONE, 2011, 6, e17333.	2.5	46
36	Species competition: coexistence, exclusion and clustering. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 3183-3195.	3.4	45

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37	Multifractal structure of chaotically advected chemical fields. Physical Review E, 2000, 61, 3857-3866.	2.1	44
38	Dye-laser fluctuations: Comparison of colored loss-noise and white gain-noise models. Physical Review A, 1988, 38, 5670-5677.	2.5	43
39	Numerical study of the dynamical aspects of pattern selection in the stochastic Swift-Hohenberg equation in one dimension. Physical Review A, 1991, 44, 1123-1133.	2.5	43
40	Sustained plankton blooms under open chaotic flows. Ecological Complexity, 2004, 1, 253-259.	2.9	42
41	Vegetation pattern formation in semiarid systems without facilitative mechanisms. Geophysical Research Letters, 2013, 40, 6143-6147.	4.0	42
42	Winding Number Instability in the Phase-Turbulence Regime of the Complex Ginzburg-Landau Equation. Physical Review Letters, 1996, 77, 267-270.	7.8	40
43	The Application of Machine Learning Techniques to Improve El NiÃ±o Prediction Skill. Frontiers in Physics, 2019, 7, .	2.1	40
44	Fluctuations impact on a pattern-forming model of population dynamics with non-local interactions. Physica D: Nonlinear Phenomena, 2004, 199, 223-234.	2.8	39
45	How Gaussian competition leads to lumpy or uniform species distributions. Theoretical Ecology, 2010, 3, 89-96.	1.0	39
46	Diffusing opinions in bounded confidence processes. European Physical Journal D, 2011, 62, 109-117.	1.3	36
47	Seasonal and regional characterization of horizontal stirring in the global ocean. Journal of Geophysical Research, 2012, 117, .	3.3	36
48	The reduction of plankton biomass induced by mesoscale stirring: A modeling study in the Benguela upwelling. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 83, 65-80.	1.4	36
49	Correlation Networks from Flows. The Case of Forced and Time-Dependent Advection-Diffusion Dynamics. PLoS ONE, 2016, 11, e0153703.	2.5	33
50	Excitable media in open and closed chaotic flows. Physical Review E, 2002, 66, 066208.	2.1	32
51	Small-scale structure of nonlinearly interacting species advected by chaotic flows. Chaos, 2002, 12, 470-480.	2.5	31
52	First-passage time statistics: Processes driven by Poisson noise. Physical Review A, 1987, 36, 5774-5781.	2.5	30
53	First-passage-time statistics in disordered media. Physical Review A, 1990, 42, 4503-4518.	2.5	30
54	Numerical study of a Lyapunov functional for the complex Ginzburg-Landau equation. Physica D: Nonlinear Phenomena, 1996, 96, 47-65.	2.8	30

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55	Dominant transport pathways in an atmospheric blocking event. Chaos, 2015, 25, 087413.	2.5	30
56	Universal Scaling in the Branching of the Tree of Life. PLoS ONE, 2008, 3, e2757.	2.5	30
57	Biological activity in the wake of an island close to a coastal upwelling. Ecological Complexity, 2008, 5, 228-237.	2.9	29
58	Minimal mechanisms for vegetation patterns in semiarid regions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140068.	3.4	29
59	Modeling approach to regime shifts of primary production in shallow coastal ecosystems. Ecological Modelling, 2009, 220, 3100-3110.	2.5	28
60	Disentangling the Influence of Mutation and Migration in Clonal Seagrasses Using the Genetic Diversity Spectrum for Microsatellites. Journal of Heredity, 2014, 105, 532-541.	2.4	28
61	Anticipating the dynamics of chaotic maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 295, 39-43.	2.1	27
62	Characterization of coherent structures in three-dimensional turbulent flows using the finite-size Lyapunov exponent. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 254022.	2.1	27
63	Transport properties for random walks in disordered one-dimensional media: Perturbative calculation around the effective-medium approximation. Physical Review B, 1990, 42, 10653-10672.	3.2	26
64	Fluctuations and pattern selection near an Eckhaus instability. Physical Review Letters, 1993, 70, 3576-3579.	7.8	26
65	Interdecadal Variability of Southeastern South America Rainfall and Moisture Sources during the Austral Summertime. Journal of Climate, 2016, 29, 6751-6763.	3.2	26
66	Modeling the dynamical sinking of biogenic particles in oceanic flow. Nonlinear Processes in Geophysics, 2017, 24, 293-305.	1.3	26
67	Sinking microplastics in the water column: simulations in the Mediterranean Sea. Ocean Science, 2021, 17, 431-453.	3.4	26
68	A comparative study between two models of active cluster crystals. Scientific Reports, 2019, 9, 16687.	3.3	25
69	BOUNDARY EFFECTS IN THE COMPLEX GINZBURGÃLANDAU EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2209-2214.	1.7	24
70	Forecasting Confined Spatiotemporal Chaos with Genetic Algorithms. Physical Review Letters, 2000, 85, 2300-2303.	7.8	24
71	Effective dimensions and percolation in hierarchically structured scale-free networks. Physical Review E, 2003, 68, 055102.	2.1	24
72	Accounting for ocean connectivity and hydroclimate in fish recruitment fluctuations within transboundary metapopulations. Ecological Applications, 2019, 29, e01913.	3.8	24

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73	Turn-on jitter of external-cavity semiconductor lasers. IEEE Journal of Quantum Electronics, 1994, 30, 241-248.	1.9	23
74	Kinematic studies of transport across an island wake, with application to the Canary islands. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 58, 605.	1.7	22
75	Dynamics of Localized Structures in Vectorial Waves. Physical Review Letters, 2000, 85, 744-747.	7.8	20
76	Exploring the tug of war between positive and negative interactions among savanna trees: Competition, dispersal, and protection from fire. Ecological Complexity, 2014, 17, 140-148.	2.9	20
77	Population dynamics advected by chaotic flows: A discrete-time map approach. Chaos, 2001, 11, 397-403.	2.5	19
78	Polarization patterns and vectorial defects in type-II optical parametric oscillators. Physical Review E, 2002, 65, 036610.	2.1	19
79	Spatial clustering of interacting bugs: Lévy flights versus Gaussian jumps. Europhysics Letters, 2010, 92, 40011.	2.0	19
80	Pattern formation with repulsive soft-core interactions: Discrete particle dynamics and Dean-Kawasaki equation. Physical Review E, 2016, 94, 042120.	2.1	19
81	Sensitivity and robustness of larval connectivity diagnostics obtained from Lagrangian Flow Networks. ICES Journal of Marine Science, 2017, 74, 1763-1779.	2.5	19
82	Characterization of the structure and cross‐shore transport properties of a coastal upwelling filament using three‐dimensional finite‐size <scp>L</scp>yapunov exponents. Journal of Geophysical Research: Oceans, 2017, 122, 7433-7448.	2.6	19
83	Random walk in dynamically disordered chains: Poisson white noise disorder. Journal of Statistical Physics, 1989, 55, 1027-1052.	1.2	18
84	Frozen spatial chaos induced by boundaries. Physical Review E, 1999, 60, 6571-6579.	2.1	18
85	SPATIOTEMPORAL CHAOS, LOCALIZED STRUCTURES AND SYNCHRONIZATION IN THE VECTOR COMPLEX GINZBURG–LANDAU EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2257-2264.	1.7	17
86	Crystallization and melting of bacteria colonies and Brownian bugs. Physical Review E, 2008, 77, 021102.	2.1	17
87	Clustering coefficient and periodic orbits in flow networks. Chaos, 2017, 27, 035803.	2.5	17
88	Diversity and Noise Effects in a Model of Homeostatic Regulation of the Sleep-Wake Cycle. PLoS Computational Biology, 2012, 8, e1002650.	3.2	17
89	Analytical calculations of switch-on time and timing jitter in diode lasers subjected to optical feedback and external light injection. Optics Communications, 1995, 115, 523-527.	2.1	16
90	Lagrangian betweenness as a measure of bottlenecks in dynamical systems with oceanographic examples. Nature Communications, 2021, 12, 4935.	12.8	16

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91	Characterizing strong disorder by the divergence of a diffusion time. Physical Review A, 1990, 41, 4562-4565.	2.5	15
92	Percolation-based precursors of transitions in extended systems. Scientific Reports, 2016, 6, 29552.	3.3	15
93	Genetic flow directionality and geographical segregation in a Cymodocea nodosa genetic diversity network. EPJ Data Science, 2012, 1, .	2.8	14
94	Lagrangian transport in a microtidal coastal area: the Bay of Palma, island of Mallorca, Spain. Nonlinear Processes in Geophysics, 2013, 20, 921-933.	1.3	14
95	Wave-Unlocking Transition in Resonantly Coupled Complex Ginzburg-Landau Equations. Physical Review Letters, 1996, 76, 1956-1959.	7.8	13
96	Average patterns of spatiotemporal chaos: A boundary effect. Physical Review E, 1999, 59, 2822-2825.	2.1	13
97	Dynamics of defects in the vector complex Ginzburg–Landau equation. Physica D: Nonlinear Phenomena, 2003, 174, 176-197.	2.8	13
98	Competitive Brownian and Lévy walkers. Physical Review E, 2012, 85, 041105.	2.1	13
99	Noise and pattern selection in the one-dimensional Swift-Hohenberg equation. Physica D: Nonlinear Phenomena, 1992, 61, 159-165.	2.8	12
100	Filament bifurcations in a one-dimensional model of reacting excitable fluid flow. Physica A: Statistical Mechanics and Its Applications, 2003, 327, 59-64.	2.6	12
101	Leaking method approach to surface transport in the Mediterranean Sea from a numerical ocean model. Journal of Marine Systems, 2005, 57, 111-126.	2.1	12
102	Joint effects of nutrients and contaminants on the dynamics of a food chain in marine ecosystems. Mathematical Biosciences, 2009, 218, 24-32.	1.9	12
103	DIVERSITY-INDUCED RESONANCE IN A SYSTEM OF GLOBALLY COUPLED LINEAR OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 3499-3508.	1.7	12
104	Clustering Determines Who Survives for Competing Brownian and Lévy Walkers. Physical Review Letters, 2013, 110, 258101.	7.8	12
105	Pattern Formation in Populations with Density-Dependent Movement and Two Interaction Scales. PLoS ONE, 2015, 10, e0132261.	2.5	12
106	Introduction to Focus Issue: Complex network perspectives on flow systems. Chaos, 2017, 27, 035601.	2.5	12
107	Interface Roughening with a Time-Varying External Driving Force. Europhysics Letters, 1993, 21, 401-406.	2.0	11
108	Ordering and finite-size effects in the dynamics of one-dimensional transient patterns. Physical Review E, 1993, 47, 4151-4160.	2.1	11

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109	Effects of current modulation on timing jitter of single-mode semiconductor lasers in short external cavities. IEEE Journal of Quantum Electronics, 1994, 30, 2281-2286.	1.9	11
110	Complex Ginzburg-Landau equation in the presence of walls and corners. Physical Review E, 2001, 64, 036205.	2.1	11
111	Scaling properties of protein family phylogenies. BMC Evolutionary Biology, 2011, 11, 155.	3.2	11
112	Lagrangian Flow Network approach to an open flow model. European Physical Journal: Special Topics, 2017, 226, 2057-2068.	2.6	11
113	Transient pattern dynamics and domain growth. Phase Transitions, 1994, 48, 65-83.	1.3	10
114	First-passage time and the fluctuation of the quenched disorder in biased media. Physical Review E, 1994, 49, R967-R970.	2.1	10
115	Localized structures in coupled Ginzburg–Landau equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 273, 239-244.	2.1	10
116	Birth, death and diffusion of interacting particles. Journal of Physics Condensed Matter, 2005, 17, S4263-S4274.	1.8	10
117	Extracting directed information flow networks: An application to genetics and semantics. Physical Review E, 2011, 83, 026103.	2.1	10
118	Constructive effects of diversity in a multi-neuron model of the homeostatic regulation of the sleep–wake cycle. Chaos, Solitons and Fractals, 2015, 81, 567-574.	5.1	9
119	Spatial Inhomogeneities in the Sedimentation of Biogenic Particles in Ocean Flows: Analysis in the Benguela Region. Journal of Geophysical Research: Oceans, 2019, 124, 4744-4762.	2.6	9
120	Classical analogies for the force acting on an impurity in a Bose–Einstein condensate. New Journal of Physics, 2020, 22, 073018.	2.9	9
121	Boundary effects in extended dynamical systems. Physica A: Statistical Mechanics and Its Applications, 2000, 283, 48-51.	2.6	8
122	Inhomogeneities and caustics in the sedimentation of noninertial particles in incompressible flows. Chaos, 2019, 29, 013115.	2.5	8
123	Frequency selection and transient dynamics in single–mode lasers with optical feedback. Journal of Applied Physics, 1992, 72, 1225-1236.	2.5	7
124	Noise-sustained currents in quasigeostrophic turbulence over topography. Physica A: Statistical Mechanics and Its Applications, 1997, 247, 312-326.	2.6	7
125	Numerical studies of an interacting particle system and its deterministic description. Physica A: Statistical Mechanics and Its Applications, 2005, 356, 95-99.	2.6	7
126	SIMPLE MODELS FOR SCALING IN PHYLOGENETIC TREES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 805-811.	1.7	7

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127	Active cluster crystals. New Journal of Physics, 2017, 19, 095001.	2.9	7
128	Cluster crystals with combined soft- and hard-core repulsive interactions. Physical Review E, 2018, 98, .	2.1	7
129	Crossroads of the mesoscale circulation. Journal of Marine Systems, 2019, 192, 1-14.	2.1	7
130	The role of diffusion in the chaotic advection of a passive scalar with finite lifetime. European Physical Journal B, 2002, 28, 353-359.	1.5	6
131	Low-dimensional dynamical system model for observed coherent structures in ocean satellite data. Physica A: Statistical Mechanics and Its Applications, 2003, 328, 233-250.	2.6	6
132	Self-localized states in species competition. Physical Review E, 2014, 89, 032724.	2.1	6
133	Anomalous scaling in an age-dependent branching model. Physical Review E, 2015, 91, 022803.	2.1	6
134	Spatial patterns of competing random walkers. Ecological Complexity, 2015, 21, 166-176.	2.9	6
135	Spatial eco-evolutionary feedbacks mediate coexistence in prey-predator systems. Scientific Reports, 2019, 9, 18161.	3.3	6
136	Patterns, localized structures and fronts in a reduced model of clonal plant growth. Physica D: Nonlinear Phenomena, 2020, 414, 132723.	2.8	6
137	General model for vegetation patterns including rhizome growth. Physical Review Research, 2020, 2, .	3.6	6
138	Multiple front propagation into unstable states. Physical Review E, 1994, 50, 377-385.	2.1	5
139	Clone size distributions in networks of genetic similarity. Physica D: Nonlinear Phenomena, 2006, 224, 166-173.	2.8	5
140	Nonlocal birth-death competitive dynamics with volume exclusion. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 063505.	2.3	5
141	Landscape-induced spatial oscillations in population dynamics. Scientific Reports, 2021, 11, 3470.	3.3	5
142	Damage spreading during domain growth. Physical Review E, 1994, 49, R4763-R4766.	2.1	4
143	An absorbing phase transition from a structured active particle phase. Journal of Physics Condensed Matter, 2007, 19, 065133.	1.8	4
144	Accumulated densities of sedimenting particles in turbulent flows. Physics of Fluids, 2020, 32, .	4.0	4

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145	Effect of phase-conjugate optical feedback on turn-on jitter in laser diodes. Optics Letters, 1995, 20, 2213.	3.3	3
146	Noise rectification in quasigeostrophic forced turbulence. Physical Review E, 1998, 58, 7279-7282.	2.1	3
147	On the effect of small-scale oceanic variability on topography-generated currents. Geophysical Research Letters, 2000, 27, 739-742.	4.0	3
148	Quasiperiodic patterns in boundary-modulated excitable waves. Physical Review E, 2001, 64, 046208.	2.1	3
149	Transient dynamics of a single-mode semiconductor laser subjected to both optical feedback and external light injection. Optical and Quantum Electronics, 1995, 27, 755-760.	3.3	2
150	Moving Pictures. Europhysics News, 1998, 29, 184-187.	0.3	2
151	Noise-induced flow in quasigeostrophic turbulence with bottom friction. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 261, 179-182.	2.1	2
152	Spatial patterns in non-locally interacting particle systems. European Physical Journal: Special Topics, 2007, 146, 37-45.	2.6	2
153	Climate Data Analysis. , 2019, , 27-47.		1
154	Local characterization of transient chaos on finite times in open systems. Journal of Physics Complexity, 2021, 2, 025014.	2.2	1
155	Moving Pictures. Europhysics News, 1998, 29, 184.	0.3	1
156	Synchronization and quantum correlations in harmonic networks. , 2013, , .		0
157	Preface: Current perspectives in modelling, monitoring, and predicting geophysical fluid dynamics. Nonlinear Processes in Geophysics, 2018, 25, 125-127.	1.3	0
158	The Climate System. , 2019, , 1-13.		0
159	Climate Variability. , 2019, , 14-26.		0
160	Climate Networks: Construction Methods and Analysis. , 2019, , 48-78.		0
161	Computational Tools for Network Analysis. , 2019, , 79-93.		0
162	Applications to Atmospheric Variability. , 2019, , 94-129.		0

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163	Applications to Oceanic Variability. , 2019, , 130-160.		0
164	Climate Tipping Behavior. , 2019, , 161-197.		0
165	Network-Based Prediction. , 2019, , 198-215.		0
166	Characteristic signatures of Northern Hemisphere blocking events in a Lagrangian flow network representation of the atmospheric circulation. Chaos, 2021, 31, 093128.	2.5	0
167	On the Topographic Rectification of Ocean Fluctuations. Nonlinear Phenomena and Complex Systems, 2004, , 133-139.	0.0	0
168	Boundary-Forced Spatial Chaos. Nonlinear Phenomena and Complex Systems, 2004, , 205-212.	0.0	0
169	<i>Preface</i> "Nonlinear processes in oceanic and atmospheric flows". Nonlinear Processes in Geophysics, 2010, 17, 283-285.	1.3	0
170	Semantic Space as a Metapopulation System: Modelling the Wikipedia Information Flow Network. Understanding Complex Systems, 2016, , 133-151.	0.6	0
171	Logistic Population Growth and Beyond: The Influence of Advection and Nonlocal Effects. , 0, , 117-129.		0
172	Network and geometric characterization of three-dimensional fluid transport between two layers. Physical Review E, 2021, 104, 065111.	2.1	0